

Notice of Allowability

Application No.

10/630,174

Examiner

Hashem Farrokh

Applicant(s)

KANEKAR ET AL.

Art Unit

2187

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to 3/2/06.
2. ☐ The allowed claim(s) is/are 4-23.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

PART I **THE EXAMINER'S EVALUATION OF THE APPLICATION**

SECTION A **RELEVANT ART CITED BY THE EXAMINER**

1. U. S. Patent Publication No. 2004/0111556 A1 to Torkelsson et al. Method and device for storing and matching arbitrary wide expressions to content addressable memories.
2. U. S. Patent Publication No. 2002/0073073 to Cheng describes Paralleled content addressable memory search engine.
3. U. S. Patent No. 6,374,326 B1 to Kansal et al. describes Multiple concurrent look-up method for content addressable memories, involves extracting bank keys of each CAM bank, which include subsets of bits of common input key.
4. U. S. Patent No. 5,748,905 to Hauser et al. describes Frame classification using classification keys.

SECTION B **DISTINGUISHING FEATURES RECITED IN THE CLAIMS**

The following is an **Examiner's Statement of Reasons for Allowance** See **MPEP 1302.14**

1. The primary reason for allowance of claims 4-9, 15-19, and 20-21 in instant application is the combination with the inclusion of following limitations: **identifying a second set of access control list entries corresponding to a first feature of said plurality of access control list entries; and programming a second associative memory bank and a second adjunct memory with second associative memory entries corresponding to the second set of access control list entries; wherein**

said first associative memory entries have a higher lookup precedence than said second associative memory entries.

2. *The primary reason for allowance of claims 10-14 and 22-23 in instant application is the combination with the inclusion of following limitations: **performing substantially simultaneous lookup operations in the plurality of associative memories and adjunct memories to generate a plurality of second lookup results; and merge the plurality of second lookup results and the merged first result to identify a merged second result.***

The prior art of record including the disclosures of Torkelsson et al. (2004/0111556 A1), Kansal et al. (6,374,326 B1 to), Kansal et al. (6,374,326 B1), Hauser et al. (5,748,905), neither anticipates nor renders obvious the above-recited combination.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays should be clearly labeled "Comments on Statement of Reasons for Allowance"

PART II THE ATTENTION OF FUTURE CORRESPONDENT

Any inquiry concerning this communication should be directed to Hashem Farrokh whose telephone number is (571) 272-4193. The examiner can normally be reached Monday-Friday from 8:00 AM to 5:00 PM.

:IMPORTANT NOTE:

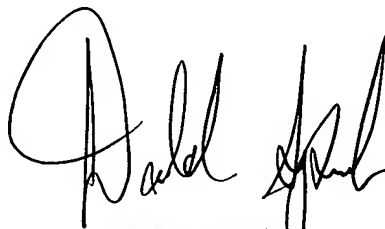
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If attempt to reach the above noted Examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Donald A Sparks, can be reached on (571) 272-4201.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published application may be obtained from either private PAIR or Public PAIR. Status information for unpublished application is available through Private PAIR only. For more information about PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBS) at 866-217-9197 (toll-free).

HF
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2006-03-13


DONALD SPARKS
SUPERVISORY PATENT EXAMINER